

U.S. EPA REGION 6  
PROPOSED PLAN AND PUBLIC COMMENT MEETING  
FOR THE WILCOX OIL COMPANY SUPERFUND SITE  
JULY 10, 2018,  
6:00 TO 7:00 P.M.

HELD AT: BRISTOW PUBLIC LIBRARY  
111 WEST 7TH AVENUE  
BRISTOW, OKLAHOMA 74010

COURT REPORTER: LINDA FISHER, CSR-RPR



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1  
2 KATRINA HIGGINS-COLTRAIN: Good evening,  
3 everybody. I think we'll go ahead and get started. It  
4 looks like most everyone is here this evening.

5 I want to thank everybody for coming out and joining  
6 us this evening for this meeting. My name is Katrina  
7 Higgins-Coltrain. I am the project -- the EPA project  
8 manager for this site.

9 Also with me this evening is Mr. Todd Downham. He's  
10 the ODEQ project manager for the site. I just want to let  
11 everybody know we have a court reporter here this evening.

12 she's going to be recording everything including any  
13 comments or questions that you have about the plan. So I  
14 respectfully request that if you do have a comment or have  
15 a concern or question, that you just speak up so that she  
16 can hear you and she can record that.

17 So we are here this evening to talk about the source  
18 control proposed plan. Many of you are familiar with the  
19 Wilcox site. This is only one step in the process to get  
20 us closer to final site completion.

21 So I want everybody to remember what we're talking  
22 about here is we're just talking about source materials.  
23 We're not talking about the entire site. We still have  
24 work to do. We still have investigations, and samples to  
25 take and reports to complete.

1 But what we want to do here is we want to remediate  
2 some things early in the process before we're totally  
3 finished with the site investigation and the documents.  
4 Okay? So we'll just start there and move forward.

5 So we're going to talk a little bit about the  
6 background of the site, where we are today, what  
7 information we've gathered so far. We want to talk with  
8 you about the cleanup alternatives that we looked at for  
9 the source materials.

10 And we also want to let you know what our preferred  
11 alternative is for addressing those source materials. The  
12 last thing we want to know is, we want to know your  
13 comments, your concerns about what we're proposing to do.

14 There are some resources available to you. At the  
15 back of the room, these slides have been printed. So  
16 please get a copy, take those with you. We've also got  
17 copies of the proposed plan itself for you to take home  
18 and read.

19 There are additional documents here in the library.  
20 We call it the administrative record. But those documents  
21 include things like the site sampling plan. They include  
22 our data packages, and all of the work that we've done to  
23 help us in supporting this decision.

24 There are also two web sources for you. DEQ has a  
25 web page on wilcox. EPA has a web page on wilcox as well,

1 so if you would rather see the documents electronically,  
2 you can visit these websites, and see those.

3 So the comment period for this proposed plan started  
4 June 28th. It will run through the end of July. So today  
5 you can submit oral comments. The court reporter will  
6 document those for us.

7 You can also submit them written. At the back of  
8 the proposed plan, there is a page for you to submit your  
9 written comment if you would like to do that tonight. Or  
10 you can do that through mail, or through email through  
11 July 31st. All right.

12 All of these comments are going to be compiled and  
13 responded to in a final decision document. All right. So  
14 about the site. The site is in Central Oklahoma just  
15 northeast of Bristow. It is the location of a former oil  
16 refinery.

17 It started operation in 1915, lasted till about  
18 1963. At this point, we are investigating a total of  
19 about 140 to 150 acres. The site consisted of two  
20 processing facilities: The Lorraine facility and the  
21 Wilcox facility. The site was finally listed on the  
22 National Priorities List in December of 2013. And that's  
23 when EPA got formally involved with the site  
24 investigation.

25 So as you can see, the Superfund Process is a long

1 process. There are multiple steps in the Superfund  
2 Process. A lot of times these steps are taken linearly.  
3 We are currently in the investigation stage.

4 Many of you have seen us out at the site taking  
5 samples. We've been there many times. We're  
6 investigating soils, surface water, sediment, sources,  
7 air. We're taking a lot of samples because we need to  
8 understand the contamination that's present, where is it,  
9 how much of it is there, and at what concentrations.

10 So what we're proposing tonight is an early or an  
11 interim action for the sources that we've identified. So  
12 as you can see, we're in the investigation stage but we've  
13 jumped ahead a couple of steps to propose an action early.

14 We have information, and we have data that tell us  
15 we need to address these sources. So we're proposing to  
16 do them during the investigation rather than waiting until  
17 we're done investigating the entire site.

18 So we've got two paths. We're continuing to  
19 investigate the site while we propose to address the  
20 sources.

21 We separated the site into five different  
22 operational areas. There are two processing areas, two  
23 tank farms, and a loading dock area where we believe the  
24 materials were shipped in and out of the facility.

25 We've used historic aerial maps and sanborn maps

1 to identify some of these interesting features. We also  
2 have a nice picture of the facility in operation sometime  
3 in the 1950s. So you can see the tanks. You can see the  
4 buildings. You can see the ponds. It's pretty  
5 interesting.

6 So we've got tanks of various sizes that held raw  
7 materials: The crude oil. Tanks that held the refined  
8 materials: the benzene, the gasoline, the diesel. We've  
9 got oil-water separation ponds, water holding ponds,  
10 cooling ponds. We also have the series of buildings in  
11 the process area where they actually heated, cracked, and  
12 refined the oil materials.

13 So we've been investigating the site in phases.  
14 It's a pretty large site, like I said earlier, about 140  
15 to 150 acres. During Phase I we were worried about those  
16 residential properties that were within the boundary.  
17 Those residential properties that were within either the  
18 tank farm or the processing area.

19 The first thing that we did is we sampled their  
20 water wells. We also sampled the soils immediately around  
21 the homes. Data show that the ground water wells are safe  
22 to use and that there is no immediate risk associated with  
23 the soil.

24 So moving from there, we used geophysics and direct  
25 sensing to help us focus in on areas where contamination

1 could potentially be located. During Phase II -- that  
2 began in 2016 -- we started collecting environmental data.  
3 Data where we were actually taking samples and determining  
4 concentrations.

5 We sampled the ground water again. We wanted to  
6 verify our first run samples. Data still indicate that  
7 the water wells are safe to use. We were also interested  
8 in the air because there are structures on the site.

9 So we used passive gas and indoor air samples. We  
10 sampled three structures. Data tell us that these source  
11 materials have the capacity to create vapors that can get  
12 into the homes and the buildings at concentrations  
13 exceeding screening numbers.

14 All of these structures are vacant so we have no one  
15 being exposed at this time. We continued on. We're  
16 sampling soils, we're sampling surface water and sediment,  
17 and sources.

18 This is the focus for this evening. So the whole  
19 time that we've been out at the site, we've been taking  
20 samples and we've been taking note of these particular  
21 sources.

22 This was an oil refinery. All of these tank  
23 locations have associated with them some tank residue or  
24 sludge.

25 Also within the processing plant itself, when the



1 gasoline is being refined, they add a lead substance to  
2 the gasoline to take out additional impurities and  
3 sulfurs. All right? So in this particular instance,  
4 we've also found lead residue of exceedingly high  
5 concentrations. So that's what we're focusing on.

6 Here are some photos of what we're talking about.  
7 So we've identified two distinct sources that we're  
8 looking at. The three photos on the left are the tank  
9 waste. The tank waste can be found as a tar, oily  
10 substance or dark, dry-like substance at the surface.

11 Samples of the tank waste material show high  
12 concentrations of -- it's a big word -- polycyclic  
13 aromatic hydrocarbons. This is a group of contaminants  
14 commonly found in oil products, and refined products,  
15 gasoline products.

16 The key contaminant here is benzo(a)pyrene. That is  
17 our focus. Benzo(a)pyrene, based on animal studies and  
18 some human studies, is a probable carcinogen. So that is  
19 our target contaminant. The tank wastes contain  
20 benzo(a)pyrene up to 12 milligrams per kilogram.

21 The bottom right picture is a picture of the lead  
22 additive area. So this is the residue after the gasoline  
23 was refined.

24 So it contains high concentrations of lead.  
25 Concentrations of lead range from 43,000 milligrams per

1 kilogram, parts per million, to up to 105,000 milligrams  
2 per kilogram. Very, very high. Very, very toxic.

3 This photograph here also in your proposed plan of  
4 materials and on a poster there at the back, if you feel  
5 you want to look at that later after the presentation, are  
6 the locations of these sources that we've located so far.  
7 The blue circles represent the tank waste material. The  
8 yellow represents the lead additive area.

9 Now, you'll also note that there's a green circle on  
10 this figure. In September and October of last year, we  
11 worked with our removal team and they came out and they  
12 removed 1,350 tons worth of tank waste material from this  
13 location. After the material was removed, clean soils  
14 from an off-site location were brought back and the site  
15 was revegetated.

16 So that leaves us with nine separate sources that  
17 we're proposing to clean up early in the process, Eight  
18 tank waste locations and the one lead source location. So  
19 why are we proposing this Interim/Early Action?

20 The Interim/Early Action process allows us the  
21 opportunity to do cleanup actions earlier when we have  
22 information or we have data that show that we should do  
23 something. Or if we know, based on our data, that we will  
24 have to do something later, why not propose to clean that  
25 up sooner in the process. So that's what we're doing.

1           It allows us to address these sources that could be  
2 a potential exposure pathway for humans or for ecological  
3 receptors for the environment. Several of these sit right  
4 on the creek so there's potential for migration or  
5 discharge to the creek. All right?

6           Also because we're only looking at two types of  
7 source materials, we were able to look at technologies in  
8 a streamlined fashion because we were only dealing with  
9 pretty much one type of contamination. We looked at  
10 several technologies that involve capping and treatment  
11 and excavation.

12           Eventually, what we found, though, is that only two  
13 alternatives really satisfied or were usable for our  
14 purposes and our source type: Excavation, treatment of  
15 the lead area with off-site disposal; or excavation,  
16 treatment of the lead area, consolidate those sources and  
17 leave them on-site capped with a protective membrane and  
18 soil.

19           So the proposed plan talks about three different  
20 alternatives. The No Action alternative is always  
21 included in the Superfund evaluation. It is the baseline.

22           It is what exists if nothing is done at the site.  
23 So basically, the site remains the same, all exposures  
24 remain, all potential migration exposure pathways remain  
25 the same.

1           Alternative 2 at an estimated cost of about \$4.1  
2 million is excavation with treatment and off-site  
3 disposal. Alternative 3 to the tune of about \$4.6 million  
4 is excavation, treatment, consolidation, capping.

5           Both of these alternatives will target the  
6 health-based concentrations for lead and benzo(a)pyrene,  
7 our target contaminants for the lead additive area, and  
8 the tank waste material.

9           We're going to target 800 milligrams per kilogram  
10 for lead. And we're going to target 0.11 milligrams per  
11 kilogram for benzo(a)pyrene.

12           How do we know which alternative to select or to  
13 present? Well, we have nine evaluation criteria. We use  
14 the nine evaluation criteria to take each one of the  
15 remedies and compare against each other.

16           The remedies must satisfy the threshold criteria.  
17 They must be protective of human health and the  
18 environment. And they must meet state and federal  
19 regulations. That's the only way we can consider them.

20           The next group is the balancing criteria. This is  
21 where we look at the alternatives and we say, Okay,  
22 alternatives, how do you fit with long-term permanence and  
23 protectiveness?

24           How hard is it for me to implement you as a remedy  
25 compared to this guy? How much do you cost compared to

1 this guy? what kind of protection will I have if I  
2 implement this remedy over this remedy? So we're looking  
3 at trade-offs between the remedies to identify which one  
4 is the best for the site.

5 And then the third is you. This is where we want  
6 your review and your comments on what we propose for the  
7 source materials.

8 So how do the alternatives stack up against each  
9 other? Both alternatives have to meet the threshold  
10 criteria so they both are protective of human health and  
11 environment and they meet the federal regulations.

12 Both of the alternatives will take the lead source  
13 material and treat it. One difference between the two is  
14 where the sources will remain in perpetuity.

15 So what is the final disposition or displacement of  
16 the source materials. Under Alternative 2, the source  
17 materials will be removed from the site and sent off to a  
18 regulated, permitted disposal facility, a landfill.

19 In Alternative 3, the source materials will be  
20 consolidated on-site. They'll be covered with a  
21 protective membrane and capped with soil. They will  
22 remain on-site forever.

23 The estimated time to complete and estimated costs  
24 are relatively the same, only two months estimated  
25 difference between the two, and about \$500,000 difference

1 in cost. It's relatively the same.

2 So what's the next big difference between the two?  
3 Land use restrictions. Under Alternative 2, because we're  
4 not totally complete with the site, remember, we're doing  
5 two parallel paths. We still need to investigate the site  
6 so we're not totally finished. This is an early action.

7 So because we don't know the full extent or the full  
8 risk of exposures, there's limited restrictions in what  
9 can be done on the property. And those are only going to  
10 be limited up until we have a final decision.

11 For Alternative 3, land use restrictions will be  
12 forever. We need to make sure that the capped material  
13 stays protective, nobody builds on it, nobody digs in it,  
14 nobody messes with it.

15 Certain land uses can't be implemented. For  
16 example, you can't build a residence on it. You probably  
17 can't build a facility on it. It all depends on, you  
18 know, how we build the cap. But there will be  
19 restrictions because of the waste.

20 We will have to look at the remedies because we're  
21 not done under Alternative 2. You know, we're still  
22 ongoing, we don't have a final site wide remedy. This is  
23 only early in the process. Five-year reviews will be  
24 forever for Alternative 3.

25 But the second or third major difference between the

1 two is operation and maintenance. Because the source  
2 materials will be removed from the site and placed in an  
3 off-site regulated, permitted facility, there will be no  
4 perpetual maintenance.

5 We won't have to come in and repair the cap. We  
6 won't have to maintain a fence. We won't have to maintain  
7 land use restrictions which will be required under  
8 Alternative 3.

9 So the preferred alternative: Alternative 2. We  
10 would like to propose excavation, treatment of the lead  
11 area with off-site disposal at an estimated cost of about  
12 \$4.1 million. The total estimated volume is about 30,000  
13 cubic yards which comes to an estimated five acres worth,  
14 if you add up all the areas that we're talking about.

15 So the preferred alternative is to take the source  
16 material, remove it from the site, dispose of it in a  
17 permitted regulated facility.

18 Benefits: What are the benefits of this  
19 alternative? Under this alternative we will be addressing  
20 nine separate source areas, the eight tank waste source  
21 areas, and the one lead source area.

22 We'll eliminate at least five migration pathways to  
23 the creek. We'll also address locations on at least four  
24 different residential properties. By doing this, we also  
25 reduce the overall risk to human health and the

1 environment.

2 So what future work remains? So right now, this is  
3 the proposed plan. After review of the data and the  
4 technologies, we propose to you Alternative 2:  
5 Excavation, Treatment, and Offsite Disposal.

6 Until July 31st, the proposed plan is available to  
7 you to review and comment. You submit your comments to  
8 us. We'll review those comments, respond to those  
9 comments, and make a final decision in what we'll call the  
10 Source Control Decision Document.

11 Once we have a decision document and we know what  
12 our cleanup alternative will be, it will have to go  
13 through a design phase. There we'll have to knock out some  
14 of the details. We'll have to identify the landfill,  
15 we'll have to identify the transporter, we'll have to  
16 identify the subcontractor, we'll have to work out some  
17 details with equipment, planning, time frame, and that  
18 sort of thing.

19 Once we have all that figured out, we have a  
20 timeline and a schedule, then we're ready for  
21 implementation. Our target time frame, 2019, 2020. At  
22 the same time that we're doing this work, we're still in  
23 the investigation stage.

24 We're still finalizing all of our data. Right now  
25 we're compiling that information. We're looking at it and



1 understanding the nature and extent. We're completing our  
2 reports. We're also looking at the potential risks that  
3 these contaminants may pose to human health and the  
4 environment. So there are still several steps to go  
5 before we've completed our site wide investigation.

6 So with that, this is our contact information, also  
7 the last slide in your packet. Thank you for coming. Any  
8 questions? Todd and I will try to answer those for you.  
9 Just, if you would, please, speak up so she can document  
10 your comment for us.

11 TODD DOWNHAM: Please state your name  
12 before you state your question as long as you want it on  
13 the record.

14 ROY WHITE: I'm Roy White. I lived on  
15 Ground Zero for about 30 years. I have gotten poisoned  
16 from that site. And I am now disabled because of the  
17 chemical poisoning. And it is documented.

18 I want to say something here. 15 feet down, y'all  
19 went 15 feet down with a core sample. And it was  
20 contaminated all the way down. How would that be cleaned  
21 up with an excavator? 15 feet down.

22 KATRINA HIGGINS-COLTRAIN: We're not --

23 ROY WHITE: Think about it.

24 KATRINA HIGGINS-COLTRAIN: Right.

25 ROY WHITE: That would have to be mining

1 equipment, large-scale mining equipment, to come in as  
2 strip mining.

3 TODD DOWNHAM: There are specific equipment  
4 that you can go down 15 -- it's called a long arm  
5 excavator. We've done it before on other sites, to answer  
6 that specific question.

7 ROY WHITE: Would it be just those little  
8 spots, or will it be the whole area?

9 TODD HARRIS: Well, and what we're talking  
10 about here is specific areas that aren't necessarily that  
11 deep. So these are -- tend to be in the eight to -- five  
12 to eight feet range.

13 So when we do -- when we did our investigations, we  
14 do go down to deeper depths. But what we're proposing in  
15 this proposed plan is once we get into the details of the  
16 actual planning phase, we're not anticipating going --  
17 we're going as deep as we need to go to address everything  
18 in those blue areas.

19 So -- but to answer your question, we can go 15 feet  
20 down. We've done it before.

21 ROY WHITE: What about the water table  
22 throughout Bristow and Wilcox Refinery? It's all the same  
23 water table.

24 TODD DOWNHAM: That's a long conversation  
25 to have about ground water. And we're also still in the

1 phase of investigating ground water on the site.

2 ROY WHITE: Because I know the wells up  
3 there on property are bad.

4 TODD DOWNHAM: We have sampled everybody's  
5 well. For two years before EPA sampled anybody's well, I  
6 personally sampled everybody's well every three months for  
7 two years.

8 We never saw any issues with anybody's well, their  
9 drinking water. So but we still have to -- we still have  
10 to do some investigation on the site to --

11 ROY WHITE: So the wells there on the  
12 white's property is good, you're saying?

13 TODD DOWNHAM: There is no well -- there is  
14 no drinking water well on the white's property.

15 ROY WHITE: There's two of them.

16 TODD DOWNHAM: They're not being --

17 ROY WHITE: We use the city water but there  
18 are two wells there.

19 TODD DOWNHAM: When we started our  
20 investigation and up until currently, there is nobody  
21 drinking the ground water on the white's property.

22 ROY WHITE: No, there is no one drinking it  
23 now, but there are two wells there. And it is in the  
24 reservoir. And they are bad. You've stated that it was  
25 bad.

1                   TODD DOWNHAM: We are in the process -- we  
2 haven't fully investigated ground water on the site.  
3 We're talking about two different things here. So we're  
4 talking about what we still need to do is for -- you know,  
5 the private water wells on the site are much deeper.  
6 We're talking 110, 120 feet deep. They're pulling water  
7 from a different zone than --

8                   ROY WHITE: So you're saying this  
9 contamination is that deep?

10                  TODD DOWNHAM: No, that's not what I'm  
11 saying. I'm saying that I have sampled -- we've sampled  
12 everyone's drinking water for --

13                  ROY WHITE: The church water. They was  
14 using that well at one time. And it did have black stuff  
15 in the well.

16                  TODD DOWNHAM: And again, there's nobody  
17 drinking the water on that property; so...

18                  ROY WHITE: Not now.

19                  UNKNOWN SPEAKER: And you said 20 foot  
20 down.

21                  ROY WHITE: But at one time, they did.

22                  UNKNOWN SPEAKER: That was pulling gallons  
23 off of his well.

24                  KATRINA HIGGINS-COLTRAIN: That, the well  
25 that had oil in it has been plugged and abandoned. So

1     there is no one using that well.

2                     ROY WHITE:   Right.   But it's still in the  
3     reservoir.

4                     KATRINA HIGGINS-COLTRAIN:   The residential  
5     water wells are safe to use.   The source control, what  
6     we're talking about are these distinct locations.   We're  
7     not proposing a site wide cleanup.

8             We still have work to do.   We still need to  
9     understand the extent of the contamination that you are  
10    referring to specifically in the process areas.

11            The process areas are complex.   The process areas  
12    contain both raw materials, refined materials, and waste  
13    materials.   So we've got gasoline issues, diesel issues,  
14    coke issues.

15                    ROY WHITE:   So in digging the dirt, what's  
16    to keep this dust debris from blowing over Bristow or any  
17    other areas that people live in?

18                    TODD DOWNHAM:   When we do this type of  
19    work, we take measures to prevent dust issues, whether  
20    it's --

21                    UNKNOWN SPEAKER:   Like Collinsville?

22                    TODD DOWNHAM:   -- spraying water down to  
23    keep the dust down.   That's -- those are all details that  
24    we work out in the design phase.

25                    UNKNOWN SPEAKER:   Like Collinsville?

1                   TODD DOWNHAM: We do air monitoring. We  
2 make sure that -- we realize dust can be a problem so we  
3 take measures to prevent that.

4                   UNKNOWN SPEAKER: And you're saying from  
5 2013. I've pulled up reports from 1989 from the EPA off  
6 of the internet showing thallium, arsenic, radium, and  
7 everything else out on these properties. Why weren't the  
8 people informed of it?

9                   ROY WHITE: That's what I was asking about  
10 is everything safe.

11                  UNKNOWN SPEAKER: We are here to get the  
12 people to help.

13                  TODD DOWNHAM: 1989?

14                  UNKNOWN SPEAKER: Yes. And I'll put them  
15 on a Facebook page for people to see. And they are  
16 documented from y'all and signed off.

17                  KATRINA HIGGINS-COLTRAIN: We also have  
18 reports on our web page. We also have reports available  
19 for you here in the library to look at. During the  
20 investigation process, data are collected, and the data  
21 are collected in order to determine whether the site needs  
22 to be placed on the National Priorities List.

23                  So what I can speak to is that since 2013 -- I  
24 became the project manager in 2015 -- we have been working  
25 to try to address the issues here at the property. So I

1 cannot speak to what happened in the past.

2 UNKNOWN SPEAKER: What I'm seeing --

3 KATRINA HIGGINS-COLTRAIN: But we are  
4 trying to address what we're finding currently.

5 UNKNOWN SPEAKER: So what I'm seeing is  
6 y'all are milking the flock.

7 TODD DOWNHAM: Ma'am, --

8 UNKNOWN SPEAKER: You all have got  
9 documents from 1989 until now. And you didn't go  
10 backwards and check? Someone ain't doing their homework.  
11 There was thallium that got banned in 1975 on the white's  
12 property and thallium got banned in the United States.

13 TODD DOWNHAM: The first report the DEQ  
14 produced on that site is from 1994; so...

15 UNKNOWN SPEAKER: Well, I've got reports  
16 showing it.

17 TODD DOWNHAM: Okay.

18 UNKNOWN SPEAKER: And people signing off on  
19 it.

20 TODD DOWNHAM: So we're in the process of  
21 investigation the site to understand the risks that are  
22 present so we can come up with a plan to address those  
23 risks. That's why we're here tonight.

24 So the site sat for many years without anything  
25 happening to it. And DEQ didn't always exist. You didn't

1 always have --

2 UNKNOWN SPEAKER: You should have got all  
3 these people off the property when you found it out, every  
4 single one of them. They should not ever have been out  
5 there on that property. A bunch of my friends are dying  
6 from this shit. Sorry for the language.

7 TODD DOWNHAM: Anybody has a right to buy a  
8 piece of property and move onto it. There aren't --

9 UNKNOWN SPEAKER: We would really like to  
10 know what's on there before we move out there.

11 TODD DOWNHAM: That is part of a larger  
12 discussion. And it has to do with -- there's a lot more  
13 things to talk about with regard to that.

14 ROY WHITE: \$350,000 homes.

15 UNKNOWN SPEAKER: Yeah.

16 TODD DOWNHAM: There are sites across the  
17 state that we are in the process of investigating.  
18 There are sites we haven't discovered yet; so...

19 ROY WHITE: If they had told me back then  
20 -- if they would have told me back then, these people  
21 wouldn't have been on there, and built \$250,000 homes.  
22 And now I've got this problem in my system. I'm not able  
23 to do -- work anymore.

24 TODD DOWNHAM: I understand your  
25 frustration.



1 UNKNOWN SPEAKER: That (indiscernible) boy,  
2 you told him he could stay out there; it was perfectly  
3 safe. You did.

4 TODD DOWNHAM: Ma'am, I believe you're  
5 misspeaking. But we can talk afterwards, if you'd like.

6 UNKNOWN SPEAKER: No. We want to have it  
7 on the record.

8 TODD DOWNHAM: Well, okay.

9 ROY WHITE: But that's all right.

10 TODD DOWNHAM: Okay. There are answers to  
11 everything you're speaking of. But we would like to keep  
12 the focus to specific questions, which is our plan this  
13 evening. Some of these questions have complex answers  
14 that this may not be the right place to discuss them, but  
15 so...

16 ROY WHITE: My dad has worked for the Corps  
17 of Engineers. I practically lived in the Corps of  
18 Engineers building when he was -- when he worked with the  
19 Corps of Engineers. I know you start stirring up things  
20 up there it's going to be a mudhole.

21 TODD DOWNHAM: That's right. We --

22 ROY WHITE: And you cannot --

23 TODD DOWNHAM: -- and we take measures to  
24 prevent any dust or migrations that would affect adjacent  
25 properties or any of the public. We take extensive safety

1 precautions to prevent that. The workers on the site, the  
2 public. We monitor the air.

3 We take a lot of measures to prevent air  
4 (indiscernible). We work with the community. It's a very  
5 detailed process. I can assure you of that.

6 KATRINA HIGGINS-COLTRAIN: Anyone else have  
7 questions?

8 MICHAEL BLASCHKE: I just have three  
9 questions kind of interrelated.

10 TODD DOWNHAM: Please state your name, sir.

11 MICHAEL BLASCHKE: I am Michael Blaschke,  
12 B-l-a-s-c-h-k-e. I am counsel for some of the families  
13 that formerly did move on the site.

14 Source, I take it that means that you've identified  
15 the source of all the pollution? Is that what that word  
16 means here in this context?

17 TODD DOWNHAM: When you say "all the  
18 pollution," you mean all the pollution on site?

19 MICHAEL BLASCHKE: The source of all the  
20 contaminants came from these things you're cleaning up.  
21 Is that what that word means? I'm -- it's really just a  
22 technical question I'm trying to understand.

23 TODD DOWNHAM: "Source" meaning a defined  
24 area that --

25 MICHAEL BLASCHKE: Are there other source

1 areas?

2 TODD DOWNHAM: Potentially, yes.

3 MICHAEL BLASCHKE: Okay.

4 TODD DOWNHAM: But we're still in the  
5 process of --

6 MICHAEL BLASCHKE: Understood.

7 TODD DOWNHAM: -- investigating the first  
8 site.

9 MICHAEL BLASCHKE: Table 3 -- I'm terrible  
10 at arithmetic -- but it looks like your lead table is 131  
11 times what you would like it to be, roughly?

12 TODD DOWNHAM: We're talking about  
13 industrial or residential lead levels; is that what you  
14 mean?

15 MICHAEL BLASCHKE: Yeah, it's Table 3. You  
16 list the health-based screening, that was 800. And the  
17 data results are 105,000. I simply did the math. It's  
18 131 times too high.

19 TODD DOWNHAM: Okay. That's probably  
20 right.

21 KATRINA HIGGINS-COLTRAIN: Yes. The lead  
22 concentrations are extremely high. We're talking, in this  
23 particular context, probably percent lead.

24 We should probably talk about percent lead rather  
25 than concentration. And we are very concerned about these

1 concentrations because it's not even safe for an  
2 industrial worker to be in the area without some type of  
3 respiratory protection.

4 MICHAEL BLASCHKE: And I understand that  
5 105 was only the highest one found. It may vary a little.

6 KATRINA HIGGINS-COLTRAIN: That was the  
7 highest.

8 MICHAEL BLASCHKE: Your benzopyrene --  
9 again I'm not good with arithmetic -- but it looks to be  
10 100 times what it should be, .11 times 100?

11 KATRINA HIGGINS-COLTRAIN: It is two orders  
12 of magnitude larger.

13 MICHAEL BLASCHKE: 800.

14 KATRINA HIGGINS-COLTRAIN: So we're talking  
15 about a cleanup level of .1. And we have concentrations  
16 of 12. So, yes, we have high concentrations.

17 MICHAEL BLASCHKE: And my last question --  
18 these really are questions based on ignorance -- is  
19 looking on page 7, first full paragraph right inside,  
20 "Results for samples collected from the tank waste are as  
21 high..." as blah, blah, blah.

22 "These wastes are not identified as listed hazardous  
23 wastes and data results indicate that the tank waste is  
24 not a characteristic hazardous waste."

25 I don't understand that.

1 KATRINA HIGGINS-COLTRAIN: Okay. These are  
2 regulatory terms.

3 MICHAEL BLASCHKE: I thought so.

4 KATRINA HIGGINS-COLTRAIN: The resource --  
5 Resource Conservation Recovery --

6 MICHAEL BLASCHKE: Resource Conservation  
7 Recovery Act.

8 KATRINA HIGGINS-COLTRAIN: Act. Yes.  
9 Sorry. RCRA. I'm used to acronyms, never spelling them  
10 out.

11 Under RCRA, they have promulgated and passed what  
12 they call listed hazardous waste. So no matter where you  
13 find this material, it is designated by law as a hazardous  
14 waste.

15 If you have a hazardous waste, it can only be  
16 disposed of in a regulated and permitted hazardous waste  
17 landfill. So the waste that we have is not a listed  
18 regulatory hazardous waste. So we're not bound by  
19 disposing of the material in a hazardous waste landfill.

20 Now, the second piece of that is that there are  
21 certain restrictions on disposing of waste, what they call  
22 land ban restrictions. So there are certain criteria that  
23 your wastes have to meet in order to be disposed in one of  
24 these facilities. 261.24 I think is the number.

25 So the second step that or hurdle that you have to

1 cross is that you sample your waste, and it must meet the  
2 criteria for toxicity, radioactivity, combustion, and  
3 radioactivity. So we're not radioactive. We're not  
4 combustible.

5 what we're busting is toxicity. Because the lead in  
6 the lead additive area will leach or dissolve out of the  
7 solid phase. And what we have to do is we have to treat  
8 that material so the lead does not leach out.

9 we have to solidify it and make a solid cohesive  
10 material out of it. So that's done through stabilization,  
11 solidification. That's just a big term for saying we're  
12 going to turn something that's granular or liquid into  
13 something solid.

14 And we do that simply by adding cement or lime or  
15 fly ash, something as simple as that that will bind the  
16 lead and keep it from leaching out or dissolving out from  
17 the solid material.

18 MICHAEL BLASCHKE: So the fact that these  
19 wastes are not listed in a technical sense has nothing to  
20 do with their toxicity or lack of toxicity?

21 KATRINA HIGGINS-COLTRAIN: Correct.

22 MICHAEL BLASCHKE: Thank you.

23 KATRINA HIGGINS-COLTRAIN: It is just a  
24 regulatory term for disposal.

25 MICHAEL BLASCHKE: Okay. That's all I

1 have. Thank you.

2 BOB JACKMAN: My name is Bob Jackman. I'm  
3 a geologist from Tulsa. But this is kind of a backyard  
4 hometown to me.

5 whose -- is it EPA's responsibility -- we hear we  
6 have toxic materials here. No question about it. You've  
7 identified them. You didn't cause them, but you have  
8 identified them.

9 Is it your responsibility to advise this community  
10 to have, like, the Oklahoma Department of Health to run  
11 tests? Do we have cancer anomalies clusters here?

12 What is the current health hazards caused -- being  
13 caused by this site, which you did not cause which you're  
14 trying to clean up. But is there sufficient -- isn't  
15 there -- isn't there is a question and a statement.

16 Isn't there sufficient information being given to  
17 the general public as to what exactly can happen with  
18 contamination by lead? You've got one particular type of  
19 benzoid.

20 There's another type or two. So that's my question.  
21 Who is responsible to be advising the health risks that  
22 are being incurred right now today until 2020 when you are  
23 completely finished?

24 KATRINA HIGGINS-COLTRAIN: I'm not a  
25 physician. I cannot advise you based on your health

1 concerns. That is between you and your doctor.

2 I do have a contact for the agency for toxic substances and  
3 disease registry that you can talk with, and we can also get  
4 you a contact with the Oklahoma Department of Health. Now,  
5 what we have tried to do in this particular instance is  
6 post the information, as soon as we get it, to our web  
7 page. We've held conversations with the property owners  
8 on a regular basis. And we've also come out here on a  
9 routine basis to share with you what we're finding.

10 As mentioned earlier, we still have investigation to  
11 do and we still have the risk assessment to do. The risk  
12 assessment will give us more information about the  
13 potential risks that these contaminants are posing based  
14 on certain exposures and based on location.

15 BOB JACKMAN: Should you have a  
16 representative from the Oklahoma Department of Health at  
17 these community hearings?

18 KATRINA HIGGINS-COLTRAIN: We have had  
19 agency representatives here and the Oklahoma Department of  
20 Health representatives here at a couple of meetings.

21 BOB JACKMAN: Thank you.

22 KATRINA HIGGINS-COLTRAIN: Any more  
23 questions?

24 STACY MARTIN: Yeah. My name is Stacy  
25 Martin. Over on 8th Street, there's a bridge that they



1 took out. And if I recall, they had to remove all the  
2 dirt, because it was contaminated, and bring new dirt in.

3 well, that was on that creek. And that creek  
4 borders my property on two sides. How am I going to know  
5 or when will I know if my property is contaminated?

6 KATRINA HIGGINS-COLTRAIN: We've taken  
7 surface water and sediment samples and that's the data  
8 that we're trying to work through right now. So as soon  
9 as we get information, and we understand what that  
10 information means, we will be talking to you.

11 STACY MARTIN: I mean, because, yeah, it's  
12 kind of scary.

13 JEFF SARGEANT: I just -- my name is Jeff  
14 Sargeant (phonetic). I live here in Bristow. I see in  
15 your materials you're going to dig down two feet  
16 subsurface, and you're talking about covering up with  
17 those materials, fly ash. And I'm just wondering if you'd  
18 ever looked at biodegradation technology molecularly to  
19 clean this up whereas it fights it kind of like something  
20 fights cancer.

21 KATRINA HIGGINS-COLTRAIN: One of the  
22 alternatives looked at in the screening process was land  
23 farming which is essentially what you're talking about,  
24 bioremediation.

25 Bioremediation is effective on organic material so

1 the tank waste material. It would not be effective on the  
2 lead metals materials.

3 The land farming process takes years. And it  
4 primarily is more effective when you have soils that are  
5 contaminated with organics rather than actual source  
6 materials like we have here.

7 So there was some question about how effective it  
8 would be. And there was a lot of uncertainty related to  
9 extent of treatment that would be needed for the tank  
10 waste material. And there was question about whether  
11 there would be residual that would still have to be  
12 managed by disposing of it off-site.

13 JEFF SARGEANT: Okay. well, it's not all  
14 tank waste. And it wouldn't all be the lead. So we've  
15 got the benzene and the other chemicals.

16 KATRINA HIGGINS-COLTRAIN: We're not --  
17 we're not to that stage yet.

18 JEFF SARGEANT: Okay.

19 KATRINA HIGGINS-COLTRAIN: Right.

20 JEFF SARGEANT: So you may address that in  
21 the future?

22 KATRINA HIGGINS-COLTRAIN: Right. So we're  
23 still investigating the site which means that there will  
24 be another step where we talk about site wide and we talk  
25 about a site wide remediation strategy that would address

1 some of these other contaminated areas.

2 JEFF SARGEANT: Okay. Last I knew, there  
3 were 807 plus deaths from cancer when everyone started  
4 this back in '13, and your organizations came into this.  
5 And those have grown. There's a lot of sick people.

6 Initially, that was at another site. And then you  
7 guys went to this site. And so I just wondered if the  
8 cancer is going to be addressed at some point.

9 KATRINA HIGGINS-COLTRAIN: Again, I can get  
10 you a contact for ATSDR. We can give you contact for  
11 Oklahoma Department of Health and let you talk with them  
12 about health risks and cancer risks.

13 JEFF SARGEANT: Okay.

14 ELSIE GEORGE: My name is Elsie George. I  
15 was wondering where would this material be disposed of,  
16 what off-site spot?

17 KATRINA HIGGINS-COLTRAIN: We believe that  
18 it will be one of the landfills in Tulsa. When our  
19 removal team was out in September and October, they found  
20 a landfill in Tulsa that was regulated and permitted and  
21 able to accept the waste.

22 So they were successful in removing that material  
23 and shipping it to Tulsa, and disposing of it there. So  
24 we anticipate that it would be that one or one similar  
25 within Tulsa.

1                   DUSTIN TREVOR: Hi. Dustin Trevor  
2 (phonetic) with Channel 6. My first question is: How is  
3 the waste going to be transported from Bristow to Tulsa?

4                   KATRINA HIGGINS-COLTRAIN: It will be  
5 transported by truck.

6                   DUSTIN TREVOR: Okay. What kind of a  
7 truck? Are we talking about an enclosed truck?

8                   KATRINA HIGGINS-COLTRAIN: That's one of  
9 the details that we'll work through in the design. But  
10 the trucks will be decontaminated before they leave the  
11 site. The preference and the request will be that they be  
12 tarped and contained, and that the drivers have a safe  
13 driving record, obviously.

14                  DUSTIN TREVOR: And then what do I need to  
15 worry about? I'm a resident here. I'm, you know -- until  
16 this cleanup plan is put into motion for the next six  
17 months, eight months, ten months, what do I need to be  
18 worried about as a resident here in Bristow?

19                  I mean, you know, how can I sleep soundly tonight?  
20 What can you tell me that will help me go to bed tonight  
21 until this plan starts?

22                  KATRINA HIGGINS-COLTRAIN: These areas are  
23 finite in location and they're specific to these  
24 locations. We feel like we have them determined both  
25 laterally and horizontally. And they are within fenced

1 areas. So as long as you --

2 UNKNOWN SPEAKER: The grid/rig wasn't in a  
3 fenced area.

4 KATRINA HIGGINS-COLTRAIN: That's a  
5 separate instance than these nine sources.

6 DUSTIN TREVOR: Thank you, ma'am.

7 PAULA JOHNSON: You're not saying then that  
8 you have identified all of the potential contaminants on  
9 the site as a whole?

10 KATRINA HIGGINS-COLTRAIN: Correct.

11 PAULA JOHNSON: You're just addressing  
12 these specific ones. So there could be a whole host of  
13 other potential contaminants.

14 KATRINA HIGGINS-COLTRAIN: Correct.

15 PAULA JOHNSON: And according to this for  
16 future work, you're looking at 2019 or 2020 for the  
17 completion of this. Do you have any estimate of when your  
18 data gathering and investigation will finish on the rest  
19 of the site and when you will get a final proposal?

20 KATRINA HIGGINS-COLTRAIN: I do not. Our  
21 work is funding dependent. So as we receive funding, we  
22 work together with as much information as we can.

23 I do know that we have additional work to do so we  
24 do need to look at the ground water. We do need to look  
25 at additional soil locations.

1           We do need to look at our risk assessment. So a  
2 process. I expect that it will be sometime after 2020.  
3 I'm just not certain.

4           PAULA JOHNSON: On comparable sites, --  
5           TODD DOWNHAM: State your name one more  
6 time.

7           PAULA JOHNSON: Paula Johnson.

8           TODD DOWNHAM: Can you stand up.

9           PAULA JOHNSON: I'm short. So when I stand  
10 up, it doesn't make much difference. On comparable sites  
11 just as an estimate, what's your time frame?

12           KATRINA HIGGINS-COLTRAIN: Ten plus years.

13           DENICE ASHLEY: Just a curious question.  
14 Since this was listed with the Environmental Protection  
15 Agency in 2013, would it have been advised that any  
16 properties that were within or around that site, would it  
17 have -- would there have been a duty to report that to a  
18 consumer? To a buyer? To an investor? Is there any type  
19 of standard practice?

20           KATRINA HIGGINS-COLTRAIN: We -- we have  
21 had conversations -- we have had conversations with the  
22 property owners as long as I've been project manager in  
23 2015. I know that since Todd has been working on the  
24 site, he has had regular conversations with the property  
25 owners.

1           No new property owners have bought property since  
2 we've been working on this site. So we have regular  
3 conversations with them and share with them what we're  
4 doing, what we're finding.

5           DENICE ASHLEY: So you're referencing  
6 within the site, no new properties or no -- nothing has  
7 been sold since 2013. But would there have been a duty to  
8 share that information by realtors or loan officers that  
9 would have -- or is that just way out of -- I mean, this  
10 is kind of out of your league as far as your --

11           TODD DOWNHAM: I'm not familiar with the  
12 specific real estate disclosure laws.

13           DENICE ASHLEY: Okay.

14           TODD DOWNHAM: But maybe somebody in here  
15 is. I don't know.

16           JASON MCKINNEY: I can comment --

17           KATRINA HIGGINS-COLTRAIN: Who -- who are  
18 you?

19           JASON MCKINNEY: I'm sorry. I'm Jason  
20 McKinney. I'm with the EPA. I can't comment for Oklahoma  
21 but I do know in Texas that you -- if your house is  
22 sitting on a Superfund site, you have to disclose that.  
23 You can't sell it without that.

24           DENICE ASHLEY: Adjacent to as well?

25           JASON MCKINNEY: I'm sorry?

1 DENICE ASHLEY: Adjacent to?

2 JASON MCKINNEY: If it's near, yes. I'm  
3 not sure what -- I can't say but I do know that you do  
4 have to disclose it.

5 TODD DOWNHAM: But is your question more  
6 directed to prior to Superfund status?

7 UNKNOWN SPEAKER: I just bought mine two  
8 and a half years ago.

9 TODD DOWNHAM: Okay. And but you're not on  
10 the site, --

11 UNKNOWN SPEAKER: No.

12 TODD DOWNHAM: -- within the site boundary.  
13 But are you asking more about before it was --

14 UNKNOWN SPEAKER: No. Well, after 2013.  
15 Any sites that would be adjacent to. Because you've  
16 already confirmed that basically you're not fully aware of  
17 all of the contamination, you're still exploring it, and  
18 investigating.

19 And I appreciate all your work. I really do but I  
20 do wonder if there's a duty to disclose as a land -- you  
21 know, people purchase properties that are adjacent to.

22 KATRINA HIGGINS-COLTRAIN: We have -- we  
23 have regular community meetings and we try to get the word  
24 out. I think your question is more specific to state  
25 regulations and laws pertaining to buying and selling real



1 estate, disclosures, and those sorts of things.

2 UNKNOWN SPEAKER: Thank you.

3 BETH WRIGHT: My name is Beth Wright.

4 TODD DOWNHAM: Would you state your name  
5 one more time, please.

6 BETH WRIGHT: Beth Wright.

7 TODD DOWNHAM: Can you spell your name,  
8 please.

9 BETH WRIGHT: My name is Beth Wright,  
10 w-r-i-g-h-t. I was just wondering, since this stuff is in  
11 the air, how far south do you think these contaminants  
12 that you know of so far have gone?

13 KATRINA HIGGINS-COLTRAIN: We've only found  
14 these in the structures when we sampled in the structures.  
15 We did not find them outside the structures.

16 The structures sometimes will act as a source for  
17 concentrating vapors. When you run your air-conditioning  
18 and your heater, vapors will get in through migration  
19 pathways and up into the home and can concentrate.

20 So we've only found them in the structures. These  
21 structures are not occupied. And we did not find them  
22 when we did perimeter sampling.

23 BETH WRIGHT: Thank you.

24 KATRINA HIGGINS-COLTRAIN: Anyone else have  
25 any questions? All right. Well, thank you for coming.

1           Please, on the back of your proposed plan here, you  
2 will see that there's a sheet. If you want to submit some  
3 written comments, please do that. Take a look at some of  
4 our photographs here, if you like. Thank you.

5                       (Whereupon, the proceedings were concluded.)  
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CERTIFICATE

STATE OF OKLAHOMA            )  
COUNTY OF TULSA            )   ss.

I, Linda Fisher, a Certified Shorthand  
Reporter, Registered Professional Reporter, and Notary  
Public in the State of Oklahoma, do hereby certify that on  
the 10th day of July, 2018, at the Bristow Public Library,  
111 West 7th Avenue, Bristow, Oklahoma, the within and  
foregoing TRANSCRIPT OF PUBLIC MEETING was reduced to  
writing by me in stenograph, and thereafter transcribed by  
me, and is fully and accurately set forth in the preceding  
pages.

I do further certify that I am not related to  
nor attorney for any of the said parties, nor otherwise  
interested in the event of said action.

WITNESS my hand and official seal this 16th day  
of July, 2018.

  
Linda Fisher, CSR-RPR #866



July 10, 2018  
EPA PROPOSED PLAN AND PUBLIC COMMENT MEETING BRISTOW

A				
abandoned	administ...	18:16	22:18	31:19
20:25	4:20	Anybody	Avenue 1:18	benzopyrene
able 11:7	advise 31:9	24:7	2:4,14	28:8
24:22	31:25	anybody's	43:9	best 13:4
35:21	advised	19:5,8	aware 40:16	Beth 41:3,3
accept	38:15	anymore		41:6,6,9,9
35:21	advising	24:23	B	41:23
accurately	31:21	appreciate	B-l-a-s-...	big 9:12
43:12	aerial 6:25	40:19	26:12	14:2 30:11
acres 5:19	affect	area 6:23	back 4:15	bind 30:15
7:15 15:13	25:24	7:11,18	5:7 10:4	biodegra...
acronyms	agency 2:3	9:22 10:8	10:14	33:18
29:9	2:13 32:2	11:15,16	24:19,20	bioremed...
act 29:7,8	32:19	12:7 15:11	35:4 42:1	33:24,25
41:16	38:15	15:21 18:8	background	bit 4:5
action 6:11	ago 40:8	26:24 28:2	4:6	black 20:14
6:13 10:19	ahead 3:3	30:6 37:3	backwards	blah 28:21
10:20	6:13	areas 6:22	23:10	28:21,21
11:20 14:6	ain't 23:10	6:22 7:25	backyard	Blaschke
43:16	air 6:7 8:8	15:14,20	31:3	26:8,11,11
actions	8:9 22:1	15:21	bad 19:3,24	26:19,25
10:21	26:2,3	18:10,18	19:25	27:3,6,9
actual	41:11	21:10,11	balancing	27:15 28:4
18:16 34:5	air-cond...	21:11,17	12:20	28:8,13,17
add 9:1	41:17	27:1 35:1	ban 29:22	29:3,6
15:14	allows	36:22 37:1	banned	30:18,22
adding	10:20 11:1	arithmetic	23:11,12	30:25
30:14	alternative	27:10 28:9	based 9:17	blowing
additional	4:11 11:20	arm 18:4	10:23	21:16
4:19 9:2	12:1,3,12	aromatic	28:18	blue 10:7
37:23,25	13:16,19	9:13	31:25	18:18
additive	14:3,11,21	arsenic	32:13,14	Bob 31:2,2
9:22 10:8	14:24 15:8	22:6	baseline	32:15,21
12:7 30:6	15:9,9,15	ash 30:15	11:21	borders
address	15:19,19	33:17	basically	33:4
6:15,19	16:4,12	ASHLEY	11:23	bottom 9:21
11:1 15:23	alternat...	38:13 39:5	40:16	bought 39:1
18:17	4:8 11:13	39:13,24	basis 32:8	40:7
22:25 23:4	11:20 12:5	40:1	32:9	bound 29:18
23:22	12:21,22	asking 22:9	bed 36:20	boundary
34:20,25	13:8,9,12	40:13	began 8:2	7:16 40:12
addressed	33:22	assessment	believe	Box 2:9
35:8	animal 9:17	32:11,12	6:23 25:4	boy 25:1
addressing	anomalies	38:1	35:17	bridge
4:11 15:19	31:11	associated	benefits	32:25
37:11	answer 17:8	7:22 8:23	15:18,18	bring 33:2
adjacent	18:5,19	assure 26:5	benzene 7:8	Bristow
25:24	answers	ATSDR 35:10	34:15	1:18,19
39:24 40:1	25:10,13	attorney	benzo(a)...	5:15 18:22
40:15,21	anticipate	43:15	9:16,17,20	21:16
	35:24	available	12:6,11	33:14 36:3
	anticipa...	4:14 16:6	benzoid	36:18 43:8

July 10, 2018  
EPA PROPOSED PLAN AND PUBLIC COMMENT MEETING BRISTOW

43:9 brought 10:14 build 14:16 14:17,18 building 25:18 buildings 7:4,10 8:12 builds 14:13 built 24:21 bunch 24:5 busting 30:5 buy 24:7 buyer 38:18 buying 40:25	14:15 29:21,22 32:14 38:3 CERTIFICATE 43:1 Certified 43:5 certify 43:7,14 Channel 36:2 characte... 28:24 check 23:10 chemical 17:17 chemicals 34:15 church 20:13 circle 10:9 circles 10:7 city 2:10 19:17 clean 10:13 10:17,24 31:14 33:19 cleaned 17:20 cleaning 26:20 cleanup 4:8 10:21 16:12 21:7 28:15 36:16 closer 3:20 clusters 31:11 cohesive 30:9 coke 21:14 collected 22:20,21 28:20 collecting 8:2 Collinsv... 21:21,25 coltrain...	2:6 combustible 30:4 combustion 30:2 come 15:5 18:1 23:22 32:8 comes 15:13 coming 3:5 17:7 41:25 comment 1:9 3:14 5:3,9 16:7 17:10 39:16,20 comments 3:13 4:13 5:5,12 13:6 16:7 16:8,9 42:3 commonly 9:14 community 2:13 26:4 31:9 32:17 40:23 COMPANY 1:10 comparable 38:4,10 compare 12:15 compared 12:25,25 compiled 5:12 compiling 16:25 complete 3:25 13:23 14:4 completed 17:5 completely 31:23 completing 17:1 completion 3:20 37:17 complex 21:11	25:13 concentrate 41:19 concentr... 41:17 concentr... 27:25 concentr... 6:9 8:4,12 9:5,12,24 9:25 12:6 27:22 28:1 28:15,16 concern 3:15 concerned 27:25 concerns 4:13 32:1 concluded 42:5 confirmed 40:16 Conserva... 29:5,6 consider 12:19 consisted 5:19 consolidate 11:16 consolid... 13:20 consolid... 12:4 consumer 38:18 contact 17:6 32:2 32:4 35:10 35:10 contain 9:19 21:12 contained 36:12 contains 9:24 contaminant 9:16,19 contamin... 9:13 12:7 17:3 26:20	32:13 37:8 37:13 41:11 contamin... 17:20 33:2 33:5 34:5 35:1 contamin... 6:8 7:25 11:9 20:9 21:9 31:18 40:17 context 26:16 27:23 continued 8:15 continuing 6:18 control 3:18 16:10 21:5 conversa... 18:24 conversa... 32:7 38:21 38:21,24 39:3 cooling 7:10 Coordinator 2:13 copies 4:17 copy 4:16 core 17:19 Corps 25:16 25:17,19 Correct 30:21 37:10,14 cost 12:1 12:25 14:1 15:11 costs 13:23 counsel 26:12 COUNTY 43:3 couple 6:13 32:20 court 1:24 3:11 5:5 covered
<b>C</b>				
c 2:1 call 4:20 16:9 29:12 29:21 called 18:4 cancer 31:11 33:20 35:3 35:8,12 cap 14:18 15:5 capacity 8:11 capped 11:17 13:21 14:12 capping 11:10 12:4 carcinogen 9:18 cause 31:7 31:13 caused 31:12,13 cement 30:14 Central 5:14 certain				

July 10, 2018  
EPA PROPOSED PLAN AND PUBLIC COMMENT MEETING BRISTOW

13:20 covering 33:16 cracked 7:11 create 8:11 creek 11:4 11:5 15:23 33:3,3 criteria 12:13,14 12:16,20 13:10 29:22 30:2 cross 30:1 crude 7:7 CSR-RPR 1:24 43:22 cubic 15:13 curious 38:13 current 31:12 currently 6:3 19:20 23:4	16:10,11 decontam... 36:10 deep 18:11 18:17 20:6 20:9 deeper 18:14 20:5 defined 26:23 DENICE 38:13 39:5 39:13,24 40:1 Department 2:8 31:10 32:4,16,19 35:11 dependent 37:21 depends 14:17 depths 18:14 DEQ 4:24 23:13,25 design 16:13 21:24 36:9 designated 29:13 detailed 26:5 details 16:14,17 18:15 21:23 36:9 determine 22:21 determined 36:24 determining 8:3 diesel 7:8 21:13 difference 13:13,25 13:25 14:2 14:25 38:10 different 6:21 11:19	15:24 20:3 20:7 dig 33:15 digging 21:15 digs 14:13 direct 7:24 directed 40:6 dirt 21:15 33:2,2 disabled 17:16 discharge 11:5 disclose 39:22 40:4 40:20 disclosure 39:12 disclosures 41:1 discovered 24:18 discuss 25:14 discussion 24:12 disease 32:3 displace... 13:15 disposal 11:15 12:3 13:18 15:11 16:5 30:24 dispose 15:16 disposed 29:16,23 35:15 disposing 29:19,21 34:12 35:23 disposition 13:15 dissolve 30:6 dissolving 30:16	distinct 9:7 21:6 dock 6:23 doctor 32:1 document 5:6,13 16:10,11 17:9 documented 17:17 22:16 documents 4:3,19,20 5:1 23:9 doing 10:25 14:4 15:24 16:22 23:10 39:4 Downham 2:7 3:9 17:11 18:3,24 19:4,13,16 19:19 20:1 20:10,16 21:18,22 22:1,13 23:7,13,17 23:20 24:7 24:11,16 24:24 25:4 25:8,10,21 25:23 26:10,17 26:23 27:2 27:4,7,12 27:19 38:5 38:8 39:11 39:14 40:5 40:9,12 41:4,7 drinking 19:9,14,21 19:22 20:12,17 drivers 36:12 driving 36:13 dry-like 9:10 dust 21:16 21:19,23	22:2 25:24 Dustin 36:1 36:1,6,14 37:6 duty 38:17 39:7 40:20 dying 24:5 <hr/> E e 2:1,1 earlier 7:14 10:21 32:10 early 4:2 6:10,13 10:17 14:6 14:23 ecological 11:2 effective 33:25 34:1 34:4,7 eight 10:17 15:20 18:11,12 36:17 either 7:17 electron... 5:1 eliminate 15:22 Elsie 35:14 35:14 email 5:10 enclosed 36:7 Engineers 25:17,18 25:19 entire 3:23 6:17 environment 11:3 12:18 13:11 16:1 17:4 environm... 2:3,8,8,13 8:2 38:14 EPA 1:8 3:7 4:25 5:23 19:5 22:5 39:20
--	--	---	--	--

July 10, 2018  
EPA PROPOSED PLAN AND PUBLIC COMMENT MEETING BRISTOW

equipment 16:17 18:1 18:1,3	40:17 exposed 8:15	fence 15:6 fenced 36:25 37:3	43:10 forever 13:22 14:12,24	31:3 geophysics 7:24
essentially 33:23	exposure 11:2,24	fights 33:19,20	formally 5:23	George 35:14,14
estate 39:12 41:1	exposures 11:23 14:8	figure 10:10	former 5:15	give 32:12
estimate 37:17 38:11	extensive 25:25	figured 16:19	formerly 26:13	35:10
estimated 12:1 13:23 13:23,24 15:11,12 15:13	extent 14:7 17:1 21:9 34:9	fills 35:18 final 3:20 5:13 13:15 14:10,22 16:9 37:19	forth 43:12 forward 4:4 found 9:4,9 9:14 11:12 24:3 28:5 35:19 41:13,20	given 31:16 go 3:3 16:12 17:4 18:4 18:14,17 18:19 23:9 36:20
evaluation 11:21 12:13,14	<hr/> F <hr/>	finalizing 16:24	four 15:23	going 3:12 4:5 5:12 12:9,10 14:9 18:16
evening 3:2 3:4,6,9,11 3:17 8:18 25:13	Facebook 22:15	finally 5:21	frame 16:17	18:17
event 43:16	facilities 5:20 29:24	find 29:13 41:15,21	16:21 38:11	25:20
Eventually 11:12	facility 5:20,21 6:24 7:2 13:18 14:17 15:3 15:17	finding 23:4 32:9 39:4	friends 24:5	30:12 33:4 33:15 35:8 36:3
everybody 3:3,5,11 3:21	fact 30:18	finish 37:18	frustration 24:25	good 3:2 19:12 28:9
everybody's 19:4,6	familiar 3:18 39:11	finished 4:3 14:6 31:23	full 14:7,7 28:19	gotten 17:15
everyone's 20:12	families 26:12	finite 36:23	fully 20:2 40:16 43:12	granular 30:12
exactly 31:17	far 4:7 10:6 39:10 41:11,12	first 7:19 8:6 23:13 27:7 28:19 36:2	funding 37:21,21	green 10:9
example 14:16	farm 7:18	Fisher 1:24 43:5,22	further 43:14	grid/rig 37:2
excavation 11:11,14 11:15 12:2 12:4 15:10 16:5	farming 33:23 34:3	fit 12:22	future 16:2 34:21 37:16	ground 7:21 8:5 17:15 18:25 19:1 19:21 20:2 37:24
excavator 17:21 18:5	farms 6:23	five 6:21 15:13,22 18:11	<hr/> G <hr/>	group 9:13 12:20
exceeding 8:13	fashion 11:8	Five-year 14:23	gallons 20:22	grown 35:5
exceedingly 9:4	features 7:1	flock 23:6	gas 8:9	guy 12:25 13:1
exist 23:25	federal 12:18 13:11	fly 30:15 33:17	gasoline 7:8 9:1,2 9:15,22 21:13	guys 35:7
exists 11:22	feel 10:4 36:24	focus 7:25 8:18 9:17 25:12	gathered 4:7	<hr/> H <hr/>
expect 38:2	feet 17:18 17:19,21 18:12,19 20:6 33:15	focusing 9:5	gathering 37:18	half 40:8
exploring		foot 20:19	general 31:17	hand 43:17
		foregoing	geologist	happen 31:17 happened 23:1 happening 23:25



July 10, 2018  
EPA PROPOSED PLAN AND PUBLIC COMMENT MEETING BRISTOW

hard 12:24	40:22	12:24 13:2	6:19 14:5	16:6 43:8
HARRIS 18:9	41:13,24	implemen...	investig...	43:18
hazardous	high 9:4,11	16:21	20:2	jumped 6:13
28:22,24	9:24 10:2	implemented	investig...	June 5:4
29:12,13	27:18,22	14:15	5:18 6:6	
29:15,16	28:16,21	impurities	6:17 7:13	K
29:18,19	highest	9:2	19:1 24:17	Katrina 2:2
hazards	28:5,7	include	27:7 34:23	3:2,6
31:12	historic	4:21,21	40:18	17:22,24
health	6:25	included	investig...	20:24 21:4
12:17	holding 7:9	11:21	4:3 5:24	22:17 23:3
13:10	home 4:17	including	6:3,12,16	26:6 27:21
15:25 17:3	41:19	3:12	16:23 17:5	28:6,11,14
31:10,12	homes 7:21	incurred	19:10,20	29:1,4,8
31:21,25	8:12 24:14	31:22	22:20	30:21,23
32:4,16,20	24:21	indicate	23:21	31:24
35:11,12	hometown	8:6 28:23	32:10	32:18,22
health-b...	31:4	indiscer...	37:18	33:6,21
12:6 27:16	homework	25:1 26:4	investig...	34:16,19
hear 3:16	23:10	indoor 8:9	3:24 18:13	34:22 35:9
31:5	horizont...	industrial	investor	35:17 36:4
hearings	36:25	27:13 28:2	38:18	36:8,22
32:17	host 37:12	information	involve	37:4,10,14
heated 7:11	house 39:21	4:7 6:14	11:10	37:20
heater	human 9:18	10:22	involved	38:12,20
41:18	12:17	16:25 17:6	5:23	39:17
held 1:18	13:10	31:16 32:6	Involvement	40:22
7:6,7 32:7	15:25 17:3	32:12 33:9	2:13	41:13,24
help 4:23	humans 11:2	33:10	issues 19:8	keep 21:16
7:25 22:12	hurdle	37:22 39:8	21:13,13	21:23
36:20	29:25	informed	21:14,19	25:11
Hi 36:1	hydrocar...	22:8	22:25	30:16
Higgins-...	9:13	Initially		key 9:16
2:2 3:2,7		35:6	J	kilogram
17:22,24	I	inside	Jackman	9:20 10:1
20:24 21:4	identified	28:19	31:2,2	10:2 12:9
22:17 23:3	6:11 9:7	instance	32:15,21	12:11
26:6 27:21	26:14	9:3 32:5	Jason 2:12	kind 13:1
28:6,11,14	28:22 31:7	37:5	39:16,19	26:9 31:3
29:1,4,8	31:8 37:8	interested	39:19,25	33:12,19
30:21,23	identify	8:7 43:16	40:2	36:6 39:10
31:24	7:1 13:3	interesting	Jeff 33:13	knew 35:2
32:18,22	16:14,15	7:1,5	33:13	knock 16:13
33:6,21	16:16	interim	34:13,18	know 3:11
34:16,19	ignorance	6:11	34:20 35:2	4:10,12,12
34:22 35:9	28:18	Interim/...	35:13	10:23
35:17 36:4	II 8:1	10:19,20	Johnson	12:12 14:7
36:8,22	immediate	internet	37:7,11,15	14:18,21
37:4,10,14	7:22	22:6	38:4,7,7,9	16:11 19:2
37:20	immediately	interrel...	joining 3:5	20:4 24:10
38:12,20	7:20	26:9	July 1:11	25:19 33:4
39:17	implement	investigate	5:4,11	33:5 36:15



July 10, 2018  
EPA PROPOSED PLAN AND PUBLIC COMMENT MEETING BRISTOW

36:19	39:10	17:12 18:4	12:8 13:13	13:21
37:23	leave 11:17	18:24 37:1	14:12	mentioned
38:23	36:10	38:22	15:16	32:10
39:15,21	leaves	long-term	29:13,19	messes
40:3,21	10:16	12:22	30:8,10,17	14:14
41:12	left 9:8	look 10:5	33:25 34:1	metals 34:2
	level 28:15	11:7 12:21	34:10	Michael
<b>L</b>	levels	14:20	35:15,22	26:8,11,11
lack 30:20	27:13	22:19	materials	26:19,25
land 14:3	library	37:24,24	3:22 4:9	27:3,6,9
14:11,15	1:18 4:19	38:1 42:3	4:11 6:24	27:15 28:4
15:7 29:22	22:19 43:8	looked 4:8	7:7,8,12	28:8,13,17
33:22 34:3	lime 30:14	11:9 33:18	8:11 10:4	29:3,6
35:18	limited	33:22	11:7 13:7	30:18,22
40:20	14:8,10	looking 9:8	13:16,17	30:25
landfill	Linda 1:24	11:6 13:2	13:19 15:2	migration
13:18	43:5,22	16:25 17:2	21:12,12	11:4,24
16:14	linearly	28:19	21:13 31:6	15:22
29:17,19	6:2	37:16	33:15,17	41:18
35:20	liquid	looks 3:4	34:2,6	migrations
language	30:12	27:10 28:9	math 27:17	25:24
24:6	list 5:22	Lorraine	matter	milking
large 7:14	22:22	5:20	29:12	23:6
large-scale	27:16	lot 6:2,7	McKinney	milligrams
18:1	listed 5:21	24:12 26:3	2:12 39:16	9:20,25
larger	28:22	34:8 35:5	39:19,20	10:1 12:9
24:11	29:12,17		39:25 40:2	12:10
28:12	30:19	<b>M</b>	mckinney...	million
lasted 5:17	38:14	ma'am 23:7	2:16	10:1 12:2
laterally	little 4:5	25:4 37:6	mean 26:18	12:3 15:12
36:25	18:7 28:5	magnitude	27:14	mine 40:7
law 29:13	live 21:17	28:12	33:11	mining
laws 39:12	33:14	mail 5:10	36:19 39:9	17:25 18:1
40:25	lived 17:14	maintain	meaning	18:2
leach 30:6	25:17	15:6,6	26:23	misspeaking
30:8	loading	maintenance	means 26:14	25:5
leaching	6:23	15:1,4	26:16,21	molecularly
30:16	loan 39:8	major 14:25	33:10	33:18
lead 9:1,4	located 8:1	managed	34:23	monitor
9:21,24,25	10:6	34:12	measures	26:2
10:8,18	location	manager 2:3	21:19 22:3	monitoring
11:15,16	5:15 10:13	3:8,10	25:23 26:3	22:1
12:6,7,10	10:14,18	22:24	meet 12:18	months
13:12	32:14	38:22	13:9,11	13:24 19:6
15:10,21	36:23	maps 6:25	29:23 30:1	36:17,17
27:10,13	locations	6:25	meeting 1:9	36:17
27:21,23	8:23 10:6	Martin	3:6 43:10	motion
27:24 30:5	10:18	32:24,25	meetings	36:16
30:6,8,16	15:23 21:6	33:11	32:20	move 4:4
31:18 34:2	36:24	material	40:23	24:8,10
34:14	37:25	9:11 10:7	membrane	26:13
league	long 5:25	10:12,13	11:17	moving 7:24

July 10, 2018  
EPA PROPOSED PLAN AND PUBLIC COMMENT MEETING BRISTOW

mudhole 25:20 multiple 6:1	41:21 October 10:10 35:19 ODEQ 3:10 off-site 10:14 11:15 12:2 15:3,11 34:12 35:16 Office 2:9 officers 39:8 official 43:17 Offsite 16:5 oil 1:10 5:15 7:7 7:12 8:22 9:14 20:25 oil-water 7:9 oily 9:9 okay 4:4 12:21 23:17 25:8 25:10 27:3 27:19 29:1 30:25 34:13,18 35:2,13 36:6 39:13 40:9 Oklahoma 1:19 2:8 2:10,10 5:14 31:10 32:4,16,19 35:11 39:20 43:2 43:7,9 on-site 11:17 13:20,22 once 16:11 16:19 18:15 ones 37:12 ongoing 14:22	operation 5:17 7:2 15:1 operational 6:22 opportunity 10:21 oral 5:5 order 22:21 29:23 orders 28:11 organic 33:25 organics 34:5 organiza... 35:4 outside 41:15 overall 15:25 owners 32:7 38:22,25 39:1	paths 6:18 14:5 pathway 11:2 pathways 11:24 15:22 41:19 Paula 37:7 37:11,15 38:4,7,7,9 people 21:17 22:8 22:12,15 23:18 24:3 24:20 35:5 40:21 percent 27:23,24 perfectly 25:2 perimeter 41:22 period 5:3 permanence 12:22 permitted 13:18 15:3 15:17 29:16 35:20 perpetual 15:4 perpetuity 13:14 personally 19:6 pertaining 40:25 phase 7:15 8:1 16:13 18:16 19:1 21:24 30:7 phases 7:13 phonetic 33:14 36:2 photograph 10:3 photographs 42:4 photos 9:6 9:8	physician 31:25 picture 7:2 9:21,21 piece 24:8 29:20 place 25:14 placed 15:2 22:22 plan 1:9 3:13,18 4:17,21 5:3,8 10:3 11:19 16:3 16:6 18:15 23:22 25:12 36:16,21 42:1 planning 16:17 18:16 plant 8:25 please 4:16 17:9,11 26:10 41:5 41:8 42:1 42:3 plugged 20:25 plus 35:3 38:12 point 5:18 35:8 poisoned 17:15 poisoning 17:17 pollution 26:15,18 26:18 polycyclic 9:12 ponds 7:4,9 7:9,10 pose 17:3 posing 32:13 post 2:9 32:6 poster 10:4 potential
N				
n 2:1 name 3:6 17:11 26:10 31:2 32:24 33:13 35:14 38:5 41:3,4,7,9 National 5:22 22:22 nature 17:1 near 40:2 necessarily 18:10 need 6:7,15 14:5,12 18:17 20:4 21:8 36:14 36:17 37:24,24 38:1 needed 34:9 needs 22:21 never 19:8 29:9 new 33:2 39:1,6 nice 7:2 nine 10:16 12:13,14 15:20 37:5 North 2:9 northeast 5:15 Notary 43:6 note 8:20 10:9 number 29:24 numbers 8:13				
O				
obviously 36:13 occupied		P p 2:1,1 P.M 1:12 packages 4:22 packet 17:7 page 4:25 4:25 5:8 22:15,18 28:19 32:7 pages 43:13 paragraph 28:19 parallel 14:5 part 24:11 particular 8:20 9:3 27:23 31:18 32:5 parties 43:15 parts 10:1 passed 29:11 passive 8:9		

July 10, 2018  
EPA PROPOSED PLAN AND PUBLIC COMMENT MEETING BRISTOW

11:2,4,24 17:2 32:13 37:8,13 <b>potentially</b> 8:1 27:2 <b>practically</b> 25:17 <b>practice</b> 38:19 <b>precautions</b> 26:1 <b>preceding</b> 43:12 <b>preference</b> 36:11 <b>preferred</b> 4:10 15:9 15:15 <b>present</b> 6:8 12:13 23:22 <b>presenta...</b> 10:5 <b>pretty</b> 7:4 7:14 11:9 <b>prevent</b> 21:19 22:3 25:24 26:1 26:3 <b>primarily</b> 34:4 <b>printed</b> 4:15 <b>prior</b> 40:6 <b>Priorities</b> 5:22 22:22 <b>private</b> 20:5 <b>probable</b> 9:18 <b>probably</b> 14:16 27:19,23 27:24 <b>problem</b> 22:2 24:22 <b>proceedings</b> 42:5 <b>process</b> 3:19 4:2 5:25 6:1,2 7:11 10:17	10:20,25 14:23 20:1 21:10,11 21:11 22:20 23:20 24:17 26:5 27:5 33:22 34:3 38:2 <b>processing</b> 5:20 6:22 7:18 8:25 <b>produced</b> 23:14 <b>products</b> 9:14,14,15 <b>Professi...</b> 43:6 <b>Program</b> 2:8 <b>project</b> 2:3 3:7,7,10 22:24 38:22 <b>promulgated</b> 29:11 <b>properties</b> 7:16,17 15:24 22:7 25:25 38:16 39:6 40:21 <b>property</b> 14:9 19:3 19:12,14 19:21 20:17 22:25 23:12 24:3 24:5,8 32:7 33:4 33:5 38:22 38:24 39:1 39:1 <b>proposal</b> 37:19 <b>propose</b> 6:13,19 10:24 13:6 15:10 16:4 <b>proposed</b> 1:9 3:18 4:17 5:3,8	10:3 11:19 16:3,6 18:15 42:1 <b>proposing</b> 4:13 6:10 6:15 10:17 10:19 18:14 21:7 <b>protection</b> 2:3,13 13:1 28:3 38:14 <b>protective</b> 11:17 12:17 13:10,21 14:13 <b>protecti...</b> 12:23 <b>public</b> 1:9 1:18 25:25 26:2 31:17 43:7,8,10 <b>pulled</b> 22:5 <b>pulling</b> 20:6,22 <b>purchase</b> 40:21 <b>purposes</b> 11:14 <b>put</b> 22:14 36:16	<b>R</b> <b>r</b> 2:1 <b>radioactive</b> 30:3 <b>radioact...</b> 30:2,3 <b>radium</b> 22:6 <b>range</b> 9:25 18:12 <b>raw</b> 7:6 21:12 <b>RCRA</b> 29:9 29:11 <b>read</b> 4:18 <b>ready</b> 16:20 <b>real</b> 39:12 40:25 <b>realize</b> 22:2 <b>really</b> 11:13 24:9 26:21 28:18 40:19 <b>realtors</b> 39:8 <b>recall</b> 33:1 <b>receive</b> 37:21 <b>receptors</b> 11:3 <b>record</b> 3:16 4:20 17:13 25:7 36:13 <b>recording</b> 3:12 <b>Recovery</b> 29:5,7 <b>reduce</b> 15:25 <b>reduced</b> 43:10 <b>referencing</b> 39:5 <b>referring</b> 21:10 <b>refined</b> 7:7 7:12 9:1 9:14,23 21:12 <b>refinery</b>	5:16 8:22 18:22 <b>regard</b> 24:13 <b>Region</b> 1:8 2:4,14 <b>Registered</b> 43:6 <b>registry</b> 32:3 <b>regular</b> 32:8 38:24 39:2 40:23 <b>regulated</b> 13:18 15:3 15:17 29:16 35:20 <b>regulations</b> 12:19 13:11 40:25 <b>regulatory</b> 29:2,18 30:24 <b>related</b> 34:8 43:14 <b>relatively</b> 13:24 14:1 <b>remain</b> 11:24,24 13:14,22 <b>remains</b> 11:23 16:2 <b>Remedial</b> 2:3 <b>remediate</b> 4:1 <b>remediation</b> 34:25 <b>remedies</b> 12:15,16 13:3 14:20 <b>remedy</b> 12:24 13:2 13:2 14:22 <b>remember</b> 3:21 14:4 <b>removal</b> 10:11 35:19 <b>remove</b>
		<b>Q</b> <b>Quality</b> 2:8 <b>question</b> 3:15 17:12 18:6,19 26:22 28:17 31:6 31:15,20 34:7,10 36:2 38:13 40:5,24 <b>questions</b> 3:13 17:8 25:12,13 26:7,9 28:18 32:23 41:25		

July 10, 2018  
EPA PROPOSED PLAN AND PUBLIC COMMENT MEETING BRISTOW

10:12,13 13:17 15:2 removing 35:22 repair 15:5 report 23:13 38:17 reporter 1:24 3:11 5:5 43:6,6 reports 3:25 17:2 22:5,18,18 23:15 represent 10:7 represen... 32:16 represen... 32:19,20 represents 10:8 request 3:14 36:11 required 15:7 reservoir 19:24 21:3 residence 14:16 resident 36:15,18 residential 7:16,17 15:24 21:4 27:13 residual 34:11 residue 8:23 9:4 9:22 resource 29:4,5,6 resources 4:14 respectf... 3:14 respiratory 28:3 respond 16:8	responded 5:13 responsi... 31:5,9 responsible 31:21 rest 37:18 restrict... 14:3,8,11 14:19 15:7 29:21,22 results 27:17 28:20,23 revegetated 10:15 review 13:6 16:3,7,8 reviews 14:23 right 5:11 5:13 9:3 9:21 11:3 11:5 16:2 16:24 17:24 21:2 24:7 25:9 25:14,21 27:20 28:19 31:22 33:8 34:19,22 41:25 risk 7:22 14:8 15:25 32:11,11 38:1 risks 17:2 23:21,23 31:21 32:13 35:12,12 Robinson 2:9 room 4:15 Ross 2:4,14 roughly 27:11 routine 32:9 Roy 17:14,14 17:23,25	18:7,21 19:2,11,15 19:17,22 20:8,13,18 20:21 21:2 21:15 22:9 24:14,19 25:9,16,22 run 5:4 8:6 31:10 41:17  S s 2:1 safe 7:21 8:7 21:5 22:10 25:3 28:1 36:12 safety 25:25 sample 17:19 30:1 sampled 7:19,20 8:5,10 19:4,5,6 20:11,11 41:14 samples 3:24 6:5,7 8:3,6,9,20 9:11 28:20 33:7 sampling 4:21 8:16 8:16 41:22 sanborn 6:25 Sargeant 33:13,14 34:13,18 34:20 35:2 35:13 sat 23:24 satisfied 11:13 satisfy 12:16 saw 19:8 saying 19:12 20:8 20:11,11	22:4 30:11 37:7 scary 33:12 schedule 16:20 screening 8:13 27:16 33:22 seal 43:17 second 14:25 29:20,25 sediment 6:6 8:16 33:7 see 5:1,2,25 6:12 7:3,3 7:4 22:15 33:14 42:2 seeing 23:2 23:5 seen 6:4 select 12:12 sell 39:23 selling 40:25 sense 30:19 sensing 7:25 sent 13:17 separate 10:16 15:20 37:5 separated 6:21 separation 7:9 September 10:10 35:19 series 7:10 set 43:12 share 32:9 39:3,8 sheet 42:2 shipped 6:24 shipping 35:23 shit 24:6 short 38:9	Shorthand 43:5 show 7:21 9:11 10:22 showing 22:6 23:16 sick 35:5 sides 33:4 signed 22:16 signing 23:18 similar 35:24 simple 30:15 simply 27:17 30:14 single 24:4 sir 26:10 sit 11:3 site 1:10 3:8,10,19 3:20,23 4:3,6,21 5:14,14,19 5:21,23 6:4,17,19 6:21 7:13 7:14 8:8 8:19 10:14 11:22,23 13:4,17 14:4,5,22 15:2,16 17:5,16 19:1,10 20:2,5 21:7 22:21 23:14,21 23:24 26:1 26:13,18 27:8 31:13 34:23,24 34:25 35:6 35:7 36:11 37:9,19 38:16,24 39:2,6,22 40:10,12 sites 18:5
---	---	--	---	---

July 10, 2018  
EPA PROPOSED PLAN AND PUBLIC COMMENT MEETING BRISTOW

38:4,10	4:24 6:6	stand 38:8	16:16	34:24,24
40:15	6:11,15,20	38:9	submit 5:5	35:11
sitting	8:17,21	standard	5:7,8 16:7	talking
39:22	9:7 10:6	38:19	42:2	3:21,22,23
six 36:16	10:16 11:1	start 4:4	substance	9:6 15:14
sizes 7:6	11:16	25:19	9:1,10,10	18:9 20:3
sleep 36:19	13:14 37:5	started 3:3	substances	20:4,6
slide 17:7	south 41:11	5:3,17 8:2	32:2	21:6 27:12
slides 4:15	speak 3:15	19:19 35:3	subsurface	27:22
sludge 8:24	17:9 22:23	starts	33:16	28:14
soil 7:23	23:1	36:21	successful	33:10,16
11:18	SPEAKER	state 12:18	35:22	33:23 36:7
13:21	20:19,22	17:11,12	sufficient	talks 11:19
37:25	21:21,25	24:17	31:14,16	tank 6:23
soils 6:6	22:4,11,14	26:10 38:5	Suite 2:4	7:18 8:22
7:20 8:16	23:2,5,8	40:24 41:4	2:14	8:23 9:8,9
10:13 34:4	23:15,18	43:2,7	sulfurs 9:3	9:11,19
sold 39:7	24:2,9,15	stated	Superfund	10:7,12,18
solid 30:7	25:1,6	19:24	1:10 5:25	12:8 15:20
30:9,13,17	37:2 40:7	statement	6:1 11:21	28:20,23
solidifi...	40:11,14	31:15	39:22 40:6	34:1,9,14
30:11	41:2	States	supporting	tanks 7:3,6
solidify	speaking	23:12	4:23	7:7
30:9	25:11	status 40:6	sure 14:12	tar 9:9
somebody	Specialist	stay 25:2	22:2 40:3	target 9:19
39:14	2:8	stays 14:13	surface 6:6	12:5,7,9
soon 32:6	specific	stenograph	8:16 9:10	12:10
33:8	18:3,6,10	43:11	33:7	16:21
sooner	25:12	step 3:19	system	tarped
10:25	36:23	29:25	24:22	36:12
sorry 24:6	37:12	34:24		team 10:11
29:9 39:19	39:12	steps 6:1,2		35:19
39:25	40:24	6:13 17:4		technical
sort 16:18	specific...	stirring	T 2:12	26:22
sorts 41:1	21:10	25:19	table 18:21	18:23 27:9
soundly	spell 41:7	strategy	27:10,15	30:19
36:19	spelling	34:25	take 3:25	technolo...
source 3:17	29:9	streamlined	4:16,17	11:7,10
3:22 4:9	spot 35:16	11:8	9:2 12:14	16:4
4:11 8:10	spots 18:8	Street	13:12	technology
10:18 11:7	spraying	32:25	15:15	33:18
11:14 13:7	21:22	strip 18:2	21:19 22:3	tell 6:14
13:12,16	ss 43:3	structures	25:23,25	8:10 36:20
13:16,19	stabiliz...	8:8,10,14	26:3,14	ten 36:17
15:1,15,20	30:10	41:14,14	42:3	38:12
15:20,21	stack 13:8	41:15,16	taken 6:2	tend 18:11
16:10 21:5	Stacy 32:24	41:20,21	33:6	term 30:11
26:14,15	32:24	studies	takes 34:3	30:24
26:19,23	33:11	9:17,18	talk 3:17	terms 29:2
26:25 34:5	stage 6:3	stuff 20:14	4:5,7	terrible
41:16	6:12 16:23	41:10	24:13 25:5	27:9
sources	34:17	subcontr...	27:24 32:3	tests 31:11
				Texas 2:5



July 10, 2018  
EPA PROPOSED PLAN AND PUBLIC COMMENT MEETING BRISTOW

2:15 39:21	20:10,16	36:1,6,14	<b>Understood</b>	15:20
<b>thallium</b>	21:18,22	37:6	27:6	21:12
22:6 23:11	22:1,13	<b>tried</b> 32:5	<b>United</b>	28:20,23
23:12	23:7,13,17	<b>truck</b> 36:5	23:12	28:24
<b>thank</b> 3:5	23:20 24:7	36:7,7	<b>UNKNOWN</b>	29:12,14
17:7 30:22	24:11,16	<b>trucks</b>	20:19,22	29:15,16
31:1 32:21	24:24 25:4	36:10	21:21,25	29:17,18
37:6 41:2	25:8,10,21	<b>try</b> 17:8	22:4,11,14	29:19,21
41:23,25	25:23	22:25	23:2,5,8	30:1 34:1
42:4	26:10,17	40:23	23:15,18	34:10,14
<b>thing</b> 4:12	26:23 27:2	<b>trying</b> 23:4	24:2,9,15	35:21 36:3
7:19 16:18	27:4,7,12	26:22	25:1,6	<b>wastes</b> 9:19
<b>things</b> 4:2	27:19 38:5	31:14 33:8	37:2 40:7	28:22,23
4:21 20:3	38:8,23	<b>Tulsa</b> 31:3	40:11,14	29:23
24:13	39:11,14	35:18,20	41:2	30:19
25:19	40:5,9,12	35:23,25	<b>usable</b>	<b>water</b> 6:6
26:20 41:1	41:4,7	36:3 43:3	11:13	7:9,20,21
<b>think</b> 3:3	<b>todd.dow...</b>	<b>tune</b> 12:3	<b>use</b> 7:22 8:7	8:5,7,16
17:23	2:11	<b>turn</b> 30:12	12:13 14:3	18:21,23
29:24	<b>told</b> 24:19	<b>two</b> 4:24	14:11 15:7	18:25 19:1
40:24	24:20 25:2	5:19 6:18	19:17 21:5	19:9,14,17
41:11	<b>tonight</b> 5:9	6:22,22	<b>uses</b> 14:15	19:21 20:2
<b>third</b> 13:5	6:10 23:23	9:7 11:6		20:5,6,12
14:25	36:19,20	11:12	<b>V</b>	20:13,17
<b>thought</b>	<b>tons</b> 10:12	13:13,24	<b>vacant</b> 8:14	21:5,22
29:3	<b>total</b> 5:18	13:25 14:2	<b>vapors</b> 8:11	33:7 37:24
<b>three</b> 8:10	15:12	14:5 15:1	41:17,18	<b>way</b> 12:19
9:8 11:19	<b>totally</b> 4:2	19:5,7,15	<b>various</b> 7:6	17:20 39:9
19:6 26:8	14:4,6	19:18,23	<b>vary</b> 28:5	<b>we'll</b> 3:3
<b>threshold</b>	<b>toxic</b> 10:2	20:3 28:11	<b>verify</b> 8:6	4:4 15:22
12:16 13:9	31:6 32:2	31:20 33:4	<b>visit</b> 5:2	15:23 16:8
<b>till</b> 5:17	<b>toxicity</b>	33:15 40:7	<b>volume</b>	16:9,13,14
<b>time</b> 8:15	30:2,5,20	<b>type</b> 11:9	15:12	16:15,15
8:19 13:23	30:20	11:14		16:16 36:9
16:17,21	<b>trade-offs</b>	21:18 28:2	<b>W</b>	<b>we're</b> 3:21
16:22	13:3	31:18,20	<b>W-r-i-g-h-t</b>	3:22,23
20:14,21	<b>transcribed</b>	38:18	41:10	4:2,5,13
38:6,11	43:11	<b>types</b> 11:6	<b>waiting</b>	6:5,7,10
41:5	<b>TRANSCRIPT</b>		6:16	6:12,15,17
<b>timeline</b>	43:10	<b>U</b>	<b>want</b> 3:5,10	6:18 8:15
16:20	<b>transported</b>	<b>U.S</b> 1:8 2:3	3:21 4:1,1	8:16 9:5,6
<b>times</b> 6:2,5	36:3,5	2:13	4:7,10,12	9:7 10:17
27:11,18	<b>transporter</b>	<b>uncertainty</b>	4:12 10:5	10:25 11:6
28:10,10	16:15	34:8	13:5 17:12	12:9,10
<b>today</b> 4:6	<b>treat</b> 13:13	<b>understand</b>	17:18 25:6	13:2 14:3
5:4 31:22	30:7	6:8 21:9	42:2	14:4,6,20
<b>Todd</b> 2:7	<b>treatment</b>	23:21	<b>wanted</b> 8:5	14:21
3:9 17:8	11:10,14	24:24	<b>wasn't</b> 37:2	15:14
17:11 18:3	11:16 12:2	26:22 28:4	<b>waste</b> 9:9,9	16:20,22
18:9,24	12:4 15:10	28:25 33:9	9:11 10:7	16:22,24
19:4,13,16	16:5 34:9	<b>understa...</b>	10:12,18	16:25,25
19:19 20:1	<b>Trevor</b> 36:1	17:1	12:8 14:19	17:1,2,22

July 10, 2018  
EPA PROPOSED PLAN AND PUBLIC COMMENT MEETING BRISTOW

18:9,14,16	24:14,19	<b>wright</b> 41:3	7:14	16:6
18:17,25	25:9,16,22	41:3,6,6,9	1445 2:4,14	350,000
20:3,3,6	<b>white's</b>	41:9,23	15 17:18,19	24:14
21:6,6	19:12,14	<b>writing</b>	17:21 18:4	
23:4,20,23	19:21	43:11	18:19	<u>4</u>
27:4,12,22	23:11	<b>written</b> 5:7	150 5:19	4.1 12:1
28:14	<b>wide</b> 14:22	5:9 42:3	7:15	15:12
29:18 30:3	17:5 21:7	<u>X</u>	1677 2:9	4.6 12:3
30:3,5,11	34:24,25	<u>Y</u>	16th 43:17	405 2:10
32:9 33:8	<b>wilcox</b> 1:10		1915 5:17	43,000 9:25
34:16,17	3:19 4:25		1950s 7:3	<u>5</u>
34:22 39:3	4:25 5:21	<b>y'all</b> 17:18	1963 5:18	500,000
39:4	18:22	22:16 23:6	1975 23:11	13:25
<b>we've</b> 4:7	<b>WITNESS</b>	<b>yards</b> 15:13	1989 22:5	<u>6</u>
4:16,22	43:17	<b>yeah</b> 24:15	22:13 23:9	6 1:8 2:4,14
6:5,11,12	<b>wonder</b>	27:15	1994 23:14	36:2
6:18,25	40:20	32:24	<u>2</u>	6:00 1:12
7:6,8,13	<b>wondered</b>	33:11	2 12:1 13:16	665-8132
8:19,19,20	35:7	<b>year</b> 10:10	14:3,21	2:15
9:4,7 10:6	<b>wondering</b>	<b>years</b> 17:15	15:9 16:4	665-8143
17:5 18:5	33:17	19:5,7	20 20:19	2:5
18:20	35:15	23:24 34:3	2013 5:22	6SF-RL 2:4
20:11	41:10	38:12 40:8	22:5,23	6SF-VO 2:14
21:13 32:7	<b>word</b> 9:12	<b>yellow</b> 10:8	38:15 39:7	<u>7</u>
32:8 33:6	26:15,21	<u>Z</u>	40:14	7 28:19
34:14 39:2	40:23	<b>Zero</b> 17:15	2015 22:24	7:00 1:12
41:13,20	<b>work</b> 3:24	<b>zone</b> 20:7	38:23	702-5136
<b>web</b> 4:24,25	4:22 16:2	<u>0</u>	2016 8:2	2:10
4:25 22:18	16:16,22	<b>0.11</b> 12:10	2018 1:11	707 2:9
32:6	21:8,19,24	<u>1</u>	43:8,18	73101-1677
<b>websites</b>	24:23 26:4	1 28:15	2019 16:21	2:10
5:2	33:8 36:9	1,350 10:12	37:16	74010 1:19
<b>wells</b> 7:20	37:16,21	10 1:11	2020 16:21	75202-2733
7:21 8:7	37:22,23	100 28:10,10	31:22	2:5,15
19:2,11,18	40:19	105 28:5	37:16 38:2	7th 1:18
19:23 20:5	<b>worked</b>	105,000	214 2:5,15	43:9
21:5	10:11	10 1:27:17	250,000	<u>8</u>
<b>went</b> 17:19	25:16,18	10th 43:8	24:21	800 12:9
35:7	<b>worker</b> 28:2	11 28:10	261.24	27:16
<b>weren't</b>	<b>workers</b>	110 20:6	29:24	28:13
22:7	26:1	111 1:18	28th 5:4	807 35:3
<b>West</b> 1:18	<b>working</b>	43:9	<u>3</u>	866 43:22
43:9	22:24	12 9:20	3 12:3 13:19	8th 32:25
<b>White</b> 17:14	38:23 39:2	28:16	14:11,24	
17:14,23	<b>worried</b>	120 20:6	15:8 27:9	
17:25 18:7	7:15 36:18	1200 2:4,14	27:15	
18:21 19:2	<b>worry</b> 36:15	13 35:4	30 17:15	
19:11,15	<b>worth</b> 10:12	131 27:10,18	30,000	
19:17,22	15:13	140 5:19	15:12	
20:8,13,18	<b>wouldn't</b>		31st 5:11	
20:21 21:2	24:21			
21:15 22:9	34:14			